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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,914	01/29/2004	Setsu Komiyama	040031	2644
23850	7590 01/13/2005		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			GRIER, LAURA A	
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WASHINGTO	WASHINGTON, DC 20006			
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
Office Action Summer	10/765,914	KOMIYAMA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Laura A Grier	2644		
The MAILING DATE of this communication appreciation for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
 Responsive to communication(s) filed on 3. This action is FINAL. 2b) ☐ This Since this application is in condition for allowant closed in accordance with the practice under Extended. 	•			
Disposition of Claims				
4) Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 29 January 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Regarding independent claim 1 (claim 2, dependent), line 4 recites, "... attenuating and

increasing ...", which implicates the filter being able to attenuate and increase an audio signal at

the same time, wherein it is accurate that a filter can perform both functions, and however, the

performance of the filter is not acquired as one in the same performance of a signal. Commonly,

a filter is described as being able to attenuate or increase a signal. Thus, the claim language of

line 4 is unclear and indefinite.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

Claims 1-2 is rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's

admitted prior art (AAPA) in view of Oinoue et al., U. S. Patent 20020031231.

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Regarding claim 1, AAPA discloses a mixing comprising an equalizer (3), a fader (4), and pan circuit (6). However, AAPA fails to specifically disclose a distance filter.

Regarding a distance filter, Oinoue et al. (herein, Oinoue) discloses an acoustic apparatus comprising a variable attenuator coupled to a LPF, wherein the variable attenuator attenuates the input audio signal, which reads on attenuating an audio signal in an entire audio-frequency band; and the LPF (low pass filter) reads on extracting a high-audio frequency component from the input audio signal level, in a correlated manner – figure 1, references 22/26, and 23/27 – (paragraph 0031-0032 and 0036-0037), and the coupling of the variable attenuator and the LPF reads a distance filter.

Thus, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of AAPA by implementing a variable attenuator coupled to a LPF for the purpose of enabling a listener to perceive or recognize a sound at a particular location than where the loudspeaker may actually be located to enjoy the acoustic effects of surround or virtual sound.

Regarding claim 2, AAPA and Oinoue disclose everything claimed as applied above (see claim 1). AAPA further discloses the variable attenuator coupled to each other (cascaded) with the variable attenuator attenuating to a predetermined level, which is operable for change, and a LPF in which the cutoff frequency may be from 2 to 6 kHz, which reads on a the distance filter, therein (figure 1); and further the amount of attenuation by the variable attenuator and the cutoff-frequency is lower when the amount of attenuation is larger, wherein the right channel signal has a gain higher for the high frequency band than that of the low frequency band, which results to a increase in attenuation (paragraph 0034).

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Prior Art

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dolby, U. S. Patent No. 4701722, discloses a circuit arrangement for modifying dynamic range using a series and parallel circuit techniques.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (703) 306-4819. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 8, 2004